

**Amendment to the Specification:**

Please replace paragraph [1] pages 1-9 with the following paragraph:

[1] This application is a continuation-in-part of, and claims benefit under 35 U.S.C. § 119(e) based on copending U.S. Provisional Application No. 60/278,650 filed on March 27, 2001; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending U.S. Utility Application No. 09/833,245, filed on April 12, 2001, and PCT International Application Serial No. US01/11988, filed on April 12, 2001; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06043, filed on March 9, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/167,061, filed on November 23, 1999, and U.S. Provisional Application No. 60/124,146, filed on March 12, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06012, filed on March 9, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/166,989, filed on November 23, 1999, and U.S. Provisional Application No. 60/124,093, filed on March 12, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06058, filed on March 9, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/168,654, filed on December 3, 1999, and U.S. Provisional Application No. 60/124,145, filed on March 12, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06044, filed on March 9, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/168,661, filed on December 3, 1999, and U.S. Provisional Application No. 60/124,099, filed on March 12, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06059, filed on March 9, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/168,622, filed on December 3, 1999, and U.S. Provisional Application No. 60/124,096, filed on March 12, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06042, filed on March 9, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/168,663, filed on December 3, 1999, and U.S. Provisional Application No. 60/124,143, filed on March 12, 1999; this application is also a

continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06014, filed on March 9, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/168,665, filed on December 3, 1999, and U.S. Provisional Application No. 60/138,598, filed on June 11, 1999, and U.S. Provisional Application No. 60/124,095, filed on March 12, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06013, filed on March 9, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/168,662, filed on December 3, 1999, and U.S. Provisional Application No. 60/138,626, filed on June 11, 1999, and U.S. Provisional Application No. 60/125,360, filed on March 19, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06049, filed on March 9, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/168,667, filed on December 3, 1999, and U.S. Provisional Application No. 60/138,574, filed on June 11, 1999, and U.S. Provisional Application No. 60/124,144, filed on March 12, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06057, filed on March 9, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/168,666, filed on December 3, 1999, and U.S. Provisional Application No. 60/138,597, filed on June 11, 1999, and U.S. Provisional Application No. 60/124,142, filed on March 12, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06824, filed on March 16, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/168,664, filed on December 3, 1999, and U.S. Provisional Application No. 60/125,359, filed on March 19, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06765, filed on March 16, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/169,906, filed on December 10, 1999, and U.S. Provisional Application No. 60/126,051, filed on March 23, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06792, filed on March 16, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/169,980, filed on December 10, 1999, and U.S. Provisional Application No. 60/125,362,

filed on March 19, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06830, filed on March 16, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/169,910, filed on December 10, 1999, and U.S. Provisional Application No. 60/125,361, filed on March 19, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06782, filed on March 16, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/169,936, filed on December 10, 1999, and U.S. Provisional Application No. 60/125,812, filed on March 23, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06822, filed on March 16, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/169,916, filed on December 10, 1999, and U.S. Provisional Application No. 60/126,054, filed on March 23, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06791, filed on March 16, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/169,946, filed on December 10, 1999, and U.S. Provisional Application No. 60/125,815, filed on March 23, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06828, filed on March 16, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/169,616, filed on December 8, 1999, and U.S. Provisional Application No. 60/125,358, filed on March 19, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06823, filed on March 16, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/169,623, filed on December 8, 1999, and U.S. Provisional Application No. 60/125,364, filed on March 19, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/06781, filed on March 16, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/169,617, filed on December 8, 1999, and U.S. Provisional Application No. 60/125,363, filed on March 19, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07505, filed on March 22, 2000, which claims benefit under 35

U.S.C. § 119(e) based on U.S. Provisional Application No. 60/172,410, filed on December 17, 1999, and U.S. Provisional Application No. 60/126,502, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07440, filed on March 22, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/172,409, filed on December 17, 1999, and U.S. Provisional Application No. 60/126,503, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07506, filed on March 22, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/172,412, filed on December 17, 1999, and U.S. Provisional Application No. 60/126,505, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07507, filed on March 22, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/172,408, filed on December 17, 1999, and U.S. Provisional Application No. 60/126,594, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07535, filed on March 22, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/172,413, filed on December 17, 1999, and U.S. Provisional Application No. 60/126,511, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07525, filed on March 22, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/171,549, filed on December 22, 1999, and U.S. Provisional Application No. 60/126,595, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07534, filed on March 22, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/171,504, filed on December 22, 1999, and U.S. Provisional Application No. 60/126,598, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07483, filed on March 22, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/171,552, filed on December 22, 1999, and U.S. Provisional Application No. 60/126,596, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit

under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07526, filed on March 22, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/171,550, filed on December 22, 1999, and U.S. Provisional Application No. 60/126,600, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07527, filed on March 22, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/171,551, filed on December 22, 1999, and U.S. Provisional Application No. 60/126,501, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07661, filed on March 23, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/174,847, filed on January 7, 2000, and U.S. Provisional Application No. 60/126,504, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07579, filed on March 23, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/174,853, filed on January 7, 2000, and U.S. Provisional Application No. 60/126,509, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07723, filed on March 23, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/242,710, filed on October 25, 2000, and U.S. Provisional Application No. 60/174,852, filed on January 7, 2000, and U.S. Provisional Application No. 60/126,506, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07724, filed on March 23, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/174,850, filed on January 7, 2000, and U.S. Provisional Application No. 60/126,510, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/14929, filed on June 1, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/174,851, filed on January 7, 2000, and U.S. Provisional Application No. 60/138,573, filed on June 11, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07722, filed on March 23, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional

Application No. 60/174,871, filed on January 7, 2000, and U.S. Provisional Application No. 60/126,508, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07578, filed on March 23, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/174,872, filed on January 7, 2000, and U.S. Provisional Application No. 60/126,507, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07726, filed on March 23, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/174,877, filed on January 7, 2000, and U.S. Provisional Application No. 60/126,597, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07677, filed on March 23, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/176,064, filed on January 14, 2000, and U.S. Provisional Application No. 60/154,373, filed on September 17, 1999, and U.S. Provisional Application No. 60/126,601, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/07725, filed on March 23, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/176,063, filed on January 14, 2000, and U.S. Provisional Application No. 60/126,602, filed on March 26, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/09070, filed on April 6, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/176,052, filed on January 14, 2000, and U.S. Provisional Application No. 60/128,695, filed on April 9, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/08982, filed on April 6, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/176,069, filed on January 14, 2000, and U.S. Provisional Application No. 60/128,696, filed on April 9, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/08983, filed on April 6, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/176,068, filed on January 14, 2000, and U.S. Provisional Application No. 60/128,703, filed on April 9, 1999; this application is also a continuation-in-part of, and claims benefit

under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/09067, filed on April 6, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/176,929, filed on January 20, 2000, and U.S. Provisional Application No. 60/128,697, filed on April 9, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/09066, filed on April 6, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/176,926, filed on January 20, 2000, and U.S. Provisional Application No. 60/128,698, filed on April 9, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/09068, filed on April 6, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/177,050, filed on January 20, 2000, and U.S. Provisional Application No. 60/128,699, filed on April 9, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/08981, filed on April 6, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/177,166, filed on January 20, 2000, and U.S. Provisional Application No. 60/128,701, filed on April 9, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/08980, filed on April 6, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/176,930, filed on January 20, 2000, and U.S. Provisional Application No. 60/128,700, filed on April 9, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/09071, filed on April 6, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/176,931, filed on January 20, 2000, and U.S. Provisional Application No. 60/128,694, filed on April 9, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/09069, filed on April 6, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/177,049, filed on January 20, 2000, and U.S. Provisional Application No. 60/128,702, filed on April 9, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/15136, filed on June 1, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/138,629, filed on June 11,

1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/14926, filed on June 1, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/138,628, filed on June 11, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/14963, filed on June 1, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/138,631, filed on June 11, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/15135, filed on June 1, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/138,632, filed on June 11, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/14934, filed on June 1, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/138,599, filed on June 11, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/14933, filed on June 1, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/138,572, filed on June 11, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/15137, filed on June 1, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/138,625, filed on June 11, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/14928, filed on June 1, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/138,633, filed on June 11, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/14973, filed on June 1, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. [[60/138,630]] 60/138,630, filed on June 11, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/14964, filed on June 1, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/138,627, filed on June 11, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/26376, filed on September 26, 2000, which claims



benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/155,808, filed on September 27, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/26371, filed on September 26, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/155,804, filed on September 27, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/26324, filed on September 26, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/155,807, filed on September 27, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/26323, filed on September 26, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/155,805, filed on September 27, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US00/26337, filed on September 26, 2000, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/155,806, filed on September 27, 1999; this application is also a continuation-in-part of, and claims benefit under 35 U.S.C. § 120 of copending PCT International Application Serial No. US01/13318, filed on April 27, 2001, which claims benefit under 35 U.S.C. § 119(e) based on U.S. Provisional Application No. 60/212,142, filed on June 16, 2000, and U.S. Provisional Application No. 60/201,194, filed on May 2, 2000. Each of the above referenced PCT applications were published in the English language. Each of the above referenced priority applications are hereby incorporated by reference in their entireties.

Please replace paragraph [20] pages 15-17 with the following paragraph:

[20] Table 1B summarizes some of the polynucleotides encompassed by the invention (including cDNA clones related to the sequences (Clone ID NO:Z), contig sequences (contig identifier (Contig ID:)) and contig nucleotide sequence identifier (SEQ ID NO:X)) and further summarizes certain characteristics of these polynucleotides and the polypeptides encoded thereby. The first column provides the gene number in the application for each clone identifier. The second column provides a unique clone identifier, "Clone ID NO:Z", for a cDNA clone related to each contig sequence disclosed in Table 1A and/or 1B. The third

column provides a unique contig identifier, "Contig ID:" for each of the contig sequences disclosed in Table 1B. The fourth column provides the sequence identifier, "SEQ ID NO:X", for each of the contig sequences disclosed in Table 1A and/or 1B. The fifth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence of SEQ ID NO:X that delineate the preferred open reading frame (ORF) that encodes the amino acid sequence shown in the sequence listing and referenced in Table 1B as SEQ ID NO:Y (column 6). Column 7 lists residues comprising predicted epitopes contained in the polypeptides encoded by each of the preferred ORFs (SEQ ID NO:Y). Identification of potential immunogenic regions was performed according to the method of Jameson and Wolf (CABIOS, 4; 181-186 (1988)); specifically, the Genetics Computer Group (GCG) implementation of this algorithm, embodied in the program PEPTIDESTRUCTURE (Wisconsin Package v10.0, Genetics Computer Group (GCG), Madison, Wisc.). This method returns a measure of the probability that a given residue is found on the surface of the protein. Regions where the antigenic index score is greater than 0.9 over at least 6 amino acids are indicated in Table 1B as "Predicted Epitopes". In particular embodiments, polypeptides of the invention comprise, or alternatively consist of, one, two, three, four, five or more of the predicted epitopes described in Table 1B. It will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly. Column 8, "Tissue Distribution" shows the expression profile of tissue, cells, and/or cell line libraries which express the polynucleotides of the invention. The first number in column 8 (preceding the colon), represents the tissue/cell source identifier code corresponding to the key provided in Table 4. Expression of these polynucleotides was not observed in the other tissues and/or cell libraries tested. For those identifier codes in which the first two letters are not "AR", the second number in column 8 (following the colon), represents the number of times a sequence corresponding to the reference polynucleotide sequence (e.g., SEQ ID NO:X) was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of <sup>33</sup>P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing

conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after “[array code]:” represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. Column 9 provides the chromosomal location of polynucleotides corresponding to SEQ ID NO:X. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Given a presumptive chromosomal location, disease locus association was determined by comparison with the Morbid Map, derived from Online Mendelian Inheritance in Man (Online Mendelian Inheritance in Man, OMIM™. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine (Bethesda, MD) 2000. ~~World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>~~). If the putative chromosomal location of the Query overlaps with the chromosomal location of a Morbid Map entry, an OMIM identification number is disclosed in column 10 labeled “OMIM Disease Reference(s)”. A key to the OMIM reference identification numbers is provided in Table 5.

Please replace paragraph [56] page 28 with the following paragraph:

[56] Table 5 provides a key to the OMIM reference identification numbers disclosed in Table 1B, column 10. OMIM reference identification numbers (Column 1) were derived from Online Mendelian Inheritance in Man (Online Mendelian Inheritance in Man, OMIM. McKusick-Nathans Institute for Genetic Medicine, Johns Hopkins University (Baltimore, MD) and National Center for Biotechnology Information, National Library of Medicine, (Bethesda, MD) 2000. ~~World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>~~). Column 2 provides diseases associated with the cytologic band disclosed in Table 1B,

column 9, as determined using the Morbid Map database.